



ATTACHMENT 1: CLEAN COPY OF ALL PENDING CLAIMS AFTER ELECTION

20. Process for oxidising a halo aromatic substrate which has more than one halogen atom, which process comprises oxidising said substrate with a monooxygenase enzyme, wherein a ring carbon of the substrate is oxidised.

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21. Process according to claim ~~1~~ in which the enzyme comprises a substitution of an amino acid in the active site by an amino acid with a less polar side-chain.

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22. Process according to claim ~~2~~ in which the enzyme comprises one or more other amino acid substitutions in the active site.

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23. Process according to claim ~~1~~ in which the enzyme is:

- (i) P450_{cam}, or
- (ii) a naturally occurring homologue of (i), or
- (iii) a mutant of (i) or (ii).

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24. Process according to claim ~~4~~ in which the enzyme is one in which amino acid 96 of P450_{cam}, or the equivalent amino acid in a homologue, has been changed to an amino acid with a less polar side-chain.

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25. Process according to claim ~~1~~ in which the halogen is chlorine.

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26. Process according to claim ~~1~~ in which the aromatic compound is a benzene or biphenyl.

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27. Process for oxidising a halo aromatic substrate, which process comprises oxidising said substrate with a monooxygenase enzyme, wherein the substrate is 1, 2-dichlorobenzene, 1, 2, 4-trichlorobenzene, 3,3'-dichlorobiphenyl, 2,2',4,5,5'-pentachlorobiphenyl, pentachlorobenzene or hexachlorobenzene.

28. Process according to claim ²⁷~~8~~ in which the enzyme is:

- (i) P450_{cam}, or
- (ii) a naturally occurring homologue of (i), or
- (iii) a mutant of (i) or (ii).

35. Method of treating a locus contaminated with a halo aromatic substrate

comprising contacting the locus with:

(i) a monooxygenase enzyme, or

(ii) a cell that expresses:

- (a) a monooxygenase enzyme;
- (b) an electron transfer reductase; and
- (c) an electron transfer redoxin, or

(iii) a non-human transgenic animal or transgenic plant whose cells express

(a), (b) and (c).